Switch 4005
Key Information Guide

Unpacking Instructions and Cautions

Documentation Summary and Included Services

Software License Agreement

Product Compliance

http://www.3com.com/

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About This Guide

This *Switch 4005 Key Information Guide* provides instructions on how to unpack the Switch 4005 chassis and other components, describes the documentation set, and provides information on included services, the software license agreement, and compliance to country and regional standards for electrical emissions and safety.

If the information in the Switch 4005 Release Notes *differs from the information in this guide, follow the instructions in the release notes. Release notes are not included in the product shipping boxes. To obtain them, visit the 3Com Web site. Begin from the "Find Documentation" link on this page:*

`http://support.3com.com/index.htm`

Audience Definition

This guide is intended for the network administrator who is responsible for unpacking and installing the network hardware. This guide assumes that the network administrator has a working knowledge of local area network (LAN) operations, but it does not assume prior knowledge of Switch 4005 high performance networking equipment. Furthermore, this guide assumes that the network administrator has obtained the appropriate technical training and experience to perform tasks in service access areas of network equipment, to be aware of electrical hazards or other hazards that exist in performing these tasks, and to take steps that minimize the danger to themselves or other persons.

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Conventions

Table 1 and Table 2 list conventions that are used throughout this guide.

Table 1 Notice Icons

Icon	Notice Type	Description
	Information note	Information that describes important features or instructions.
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device.
	Warning	Information that alerts you to potential personal injury.

Table 2 Text Conventions

Convention	Description
Words in *italics*	Italics are used to: ■ Emphasize a point ■ Denote a new term at the place where it is defined in the text

Related Documentation

The Switch 4005 documentation set includes the following documents:

- *Switch 4005 Key Information Guide* (this guide)
- *Switch 4005 Installation and Maintenance Guide*
- *Switch 4005 Software Configuration Guide*
- *Switch 4005 Release Notes*

To read a brief description of each document, to understand how each document is distributed in paper or electronic format, or to learn how to order additional paper copies or to download electronic copies, see Chapter 2 in this guide.

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1 Unpacking Instructions

This chapter contains important instructions and information about the shipping box that you have opened.

Because this guide is included in the shipping box of every item in the Switch 4005 product set, this guide may contain more information than you need. However, you should be able to easily locate the information that applies to the box that you have opened.

This chapter includes the following sections:

- Unpacking a Chassis — see page 8
- Unpacking a Module — see page 11
- Unpacking a Power Supply — see page 13
- Unpacking a Fan Tray — see page 14

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Unpacking a Chassis

Your chassis will have the following preinstalled components:

- One power supply
- Two fan trays
- Either of the following:
  - A Switch Fabric Management Module

    OR
  - A Switch Fabric Management Module plus a specified set of interface modules. This configuration may be labeled as a *starter kit* on your sales paperwork.

To unpack your Switch 4005 chassis, follow these steps:

1. Before you continue to unpack the shipping box or install the product, carefully examine the box for signs of external damage. If the shipping box shows any signs of damage, replace any items that you have already removed, reseal the shipping box, and contact your network supplier (the company from which you purchased the product) immediately.

   If you cannot contact your supplier, contact 3Com Customer Service:

   - If you are located in the United States or Canada, call 1-800-NET-3COM (1-800-638-3266) and select the numeric option to reach customer service and the product repair departments.
   - If you are located in another country, find the appropriate telephone number from the 3Com Web site:
     `http://www.3com.com/util/enterprise.html`
2. If there is no or superficial external damage, use a sufficient number of people to move the heavy shipping box. Place it near the rack, table, or shelf where you plan to install the chassis.

WARNING: *To minimize the risk of personal injury or equipment damage, have at least two people transport the shipping box.*

WARNING: *Safety regulations require that the rack, table, or shelf must be able to support at least three times the weight of a fully loaded chassis. A fully loaded Switch 4005 chassis weighs approximately 20.6 kg (45.5 lb) fully loaded. Therefore, the selected rack, table, or shelf must support at least 61.8 kg (136.5 lb).*

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3 By the time you read these instructions, you will have already opened the shipping box. If you followed the instructions that are printed on the outside of the shipping box, you turned the box 90 degrees from its shipment position before you opened it. This position allows you to easily pull and slide the contents out of the box laterally, rather than to lift them vertically out of the box.

4 When you first opened the box, you should have seen:

- The chassis wrapped in a plastic bag.

  The chassis is held securely in place by foam supports on two sides and it is protected from dust and scratches by a plastic bag. One side of the chassis will be facing you.

- The cardboard accessories tray located on top of the chassis.

5 Pull the accessories tray out of the shipping box.

6 Verify that the following items are included in the accessories tray:

- One power cord that is appropriate for your country.
- One hardware kit in a plastic bag that contains:
  - Two rack-mount flanges
  - Fourteen screws
  - Four rubber feet
  - One cable management device
  - Fourteen plastic ties
  - One standard null modem RS-232 console cable
- Three printed manuals:
  - *Switch 4005 Key Information Guide* (this guide)
  - *Switch 4005 Installation and Maintenance Guide*
  - *Switch 4005 Software Configuration Guide*

7 Grasp the top and bottom of the chassis and slide it laterally out of the box. The foam supports should stay attached to the chassis.

8 Remove the foam supports and unwrap the plastic bag from the chassis, taking care not to damage any components (such as modules) that are preinstalled in the chassis.

CAUTION: *Do not grasp any part of the preinstalled modules when you remove the foam supports or plastic bag from the chassis, because you may damage them.*

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9 Save the foam supports and plastic bag in case you need to pack up and move the chassis to a different site, or in case you need to return the chassis to your network supplier or to 3Com.

10 Inspect the chassis and verify that it contains:

- One power supply (rear, bottom left or right)
- Two fan trays (rear, top left and right)
- One Switch Fabric Management Module in slot M1 or M2 (front)
- (Starter kits only) The correct type and number of interface modules:
  - Model Number 3C16830 holds five 8-port 10/100BASE-TX Interface Modules (3C16828) in slots 1 through 5.
  - Model Number 3C16831 holds two 8-port 10/100BASE-TX Interface Modules (3C16828) in slots 1 and 2, and two 8-port 100BASE-FX MT-RJ Interface Modules (3C16829) in slots 3 and 4.
  - Model Number 3C16832 holds five 2-port 1000BASE-T Interface Modules (3C16841) in slots 1 through 5.
  - Model Number 3C16833 holds five 2-port 1000BASE-SX Interface Modules (3C16842) in slots 1 through 5.

If your starter kit is not described here, consult your sales paperwork for the interface modules that should be preinstalled.

- All unoccupied module slots and the second power bay should be covered with blank faceplates.

If the shipping box does not contain the correct components (including the accessories listed in step 6), follow the instructions in step 1.

11 If you are not prepared to install the chassis, replace it in the shipping box with the plastic bag and foam supports in their original positions to prevent damage to the chassis.

12 Read the *Switch 4005 Installation and Maintenance Guide* to verify that you have met prerequisite installation conditions, to acknowledge important safety information, and to follow the installation procedures.

A printed copy of this guide is included in all chassis shipping boxes.

Alternatively, you can download a copy of this guide from the 3Com Web site. Click the "Find Documentation" link on this page:
http://support.3com.com/index.htm

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Unpacking a Module

3Com offers individual Switch 4005 modules for purchase so that you can:

- Add modules to the empty slots in a chassis.
- Have spare modules in storage at your site to meet service requirements or network expansion.

See the Switch 4005 Installation and Maintenance Guide *for slot restrictions for Switch Fabric Management Modules, Fast Ethernet Interface Modules, or Gigabit Ethernet Interface Modules.*

This section contains basic instructions and cautions to follow when unpacking a module shipping box.

1 Before you remove the module from its shipping box, carefully examine the shipping box for signs of damage.

If the shipping box shows any signs of damage, replace any items that you have already removed, reseal the shipping box, and contact your network supplier (the company from which you purchased the product) immediately.

If you cannot contact your supplier, contact 3Com Customer Service:

- If you are located in the United States or Canada, call 1-800-NET-3COM (1-800-638-3266) and select the numeric option to reach the customer service and product repair departments.
- If you are located in another country, find the appropriate telephone number from the 3Com Web site:
  `http://www.3com.com/util/enterprise.html`

2 Attach a wrist strap to yourself and a proper ground.

CAUTION: *When you handle a module, 3Com recommends that you always use a wrist strap that is connected to a proper ground. This precaution helps prevent electrostatic discharge from damaging the module.*

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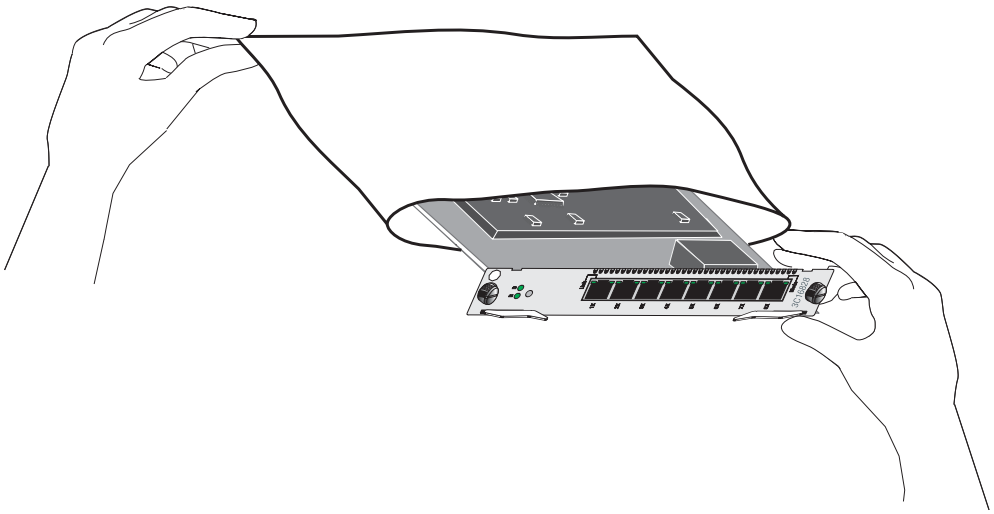
3 As shown in Figure 1, remove the module from its antistatic bag by grasping it on the faceplate. Do not touch traces, chips, or other components on the circuit board at any time.

Figure 1 Unpacking a Module Carefully



4 Examine the module for obvious signs of damage.

If damage is apparent, follow the instructions in step 1.

If no damage is apparent, replace the module in its antistatic bag.

5 Leave the module in its antistatic bag until you are ready to install it.

6 Read the *Switch 4005 Installation and Maintenance Guide* for important safety information and instructions for installing and removing modules.

A printed copy of this guide is included in all chassis shipping boxes.

Alternatively, you can download a copy of this guide from the 3Com Web site. Click the "Find Documentation" link on this page:
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Unpacking a Power Supply

The Switch 4005 can hold two power supplies. Only one power supply is required for operation. If installed, a second power supply provides complete redundancy if the other power supply fails.

If the power source to the Switch 4005 fails, the power supplies in the switch do not function as battery backups.

All Switch 4005 chassis ship from the manufacturing center with one power supply preinstalled. However, you can purchase a second power supply separately and install it at your site.

This section contains instructions and cautions to be aware of when unpacking an individual power supply (Model Number 3C16822).

1. Before you continue to unpack the shipping box, carefully examine it for signs of damage.

   If the shipping box shows any signs of damage, replace any items that you have already removed, reseal the shipping box, and contact your network supplier (the company from which you purchased the product) immediately.

   If you cannot contact your supplier, contact 3Com Customer Service:

   - If you are located in the United States or Canada, call 1-800-NET-3COM (1-800-638-3266) and select the numeric option to reach customer service and the product repair departments.
   - If you are located in another country, find the appropriate telephone number from the 3Com Web site:
     `http://www.3com.com/util/enterprise.html`

2. Remove the protective wrap and inspect the power supply for damage. If damage exists, follow the instructions in step 1.

3. Replace the protective wrap and return the power supply to its shipping box until you are ready to install it.

4. Read the *Switch 4005 Installation and Maintenance Guide* for important safety information and instructions for removing and installing power supplies.

   A printed copy of this guide is included in all chassis shipping boxes.

   Alternatively, you can download a copy from the 3Com Web site. Click the "Find Documentation" link on this page:
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Unpacking a Fan Tray

The Switch 4005 chassis houses two fan trays. Each fan tray contains two fans. All four fans are required for normal operation.

All Switch 4005 chassis and starter kits ship from the manufacturing center with two fan trays preinstalled. You do not have to order or install a fan tray in a Switch 4005 chassis unless one or both fans in a fan tray fail.

This section contains instructions and cautions when unpacking an individual fan tray (order number 3C16823).

1. Before you continue to unpack the shipping box, carefully examine it for signs of damage.

   If the shipping box shows any signs of damage, replace any items that you have already removed, reseal the shipping box, and contact your network supplier (the company from which you purchased the product) immediately.

   If you cannot contact your supplier, contact 3Com Customer Service:

   - If you are located in the United States or Canada, call 1-800-NET-3COM (1-800-638-3266) and select the numeric option to reach customer service and the product repair departments.
   - If you are located in another country, find the appropriate telephone number from the 3Com Web site:
     http://www.3com.com/util/enterprise.html

2. Remove the protective wrap and inspect the fan tray supply for damage. If damage exists, follow the instructions in step 1.

3. Replace the protective wrap and return the fan tray to its shipping box until you are ready to install it.

4. Read the *Switch 4005 Installation and Maintenance Guide* for important safety information and instructions for removing and installing fan trays.

   A printed copy of this guide is included in all chassis shipping boxes.

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2 Documentation and Included Services

This chapter provides brief descriptions of the following documentation titles and how you can obtain them:

- Switch 4005 Key Information Guide (this document)
- Switch 4005 Installation and Maintenance Guide
- Switch 4005 Software Configuration Guide
- Switch 4005 Release Notes

In addition, this chapter describes the 3Com Network Supervisor software that can be obtained from 3Com's Web site, as well as the support services that are included with the purchase of your Switch 4005.

Key Information Guide

This guide that you are reading contains a variety of important information, as shown in the Table of Contents.

Printed Copies

A printed copy of this guide is included with every item in the Switch 4005 product set.

After you unpack shipping boxes, keep this guide in a safe place for future reference, along with your sales paperwork. For example, you may need to review the warranty terms at some point.

Electronic Copies

You can download an electronic copy of this guide from the 3Com Web site. Click the "Find Documentation" link on this page:
`http://support.3com.com/index.htm`

The 3Com Web site contains the most updated version of this guide, or it may contain "addendums" (additional information) to the version that you received in your shipping box. We recommend that you consult the Web site for the latest documentation. Corrections to this guide are noted in Switch 4005 Release Notes.

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Installation and Maintenance Guide

The *Switch 4005 Installation and Maintenance Guide* provides the information you need to install or replace a chassis, module, power supply, or fan tray. It includes site requirements, product specifications, important safety information, and installation and removal procedures.

Printed Copies

A printed copy of this guide is included with all Switch 4005 chassis. For your convenience, a wired binding allows the document to lay flat from any page.

After you install a new chassis, keep this guide in a safe place for future reference when you install or replace components such as modules, fan trays, and power supplies.

You can order a printed copy of this guide as well as a copy of the *Switch 4005 Software Configuration Guide* (as a packaged set) with order number 3C16839.

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Software Configuration Guide

The *Switch 4005 Software Configuration Guide* provides information about the switch architecture, the management interfaces, the default software configuration that exists when you first power up the system, and how to customize the software features.

Printed Copies

A printed copy of this guide is included with all Switch 4005 chassis. For your convenience, a wired binding allows the document to lay flat from any page.

You can order a printed copy of this guide as well as a copy of the *Switch 4005 Installation and Maintenance Guide* (as a packaged set) with order number 3C16839.

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Release Notes

Every major release and minor release is described in the *Switch 4005 Release Notes*.

Patch releases that fix one or two specific problems may be accompanied by a "Read-Me" document to describe the nature of the release. If no Read-Me document exists, contact 3Com technical support for information about the patch before you download and install it on your Switch 4005.

The *Switch 4005 Release Notes* normally contain a summary of release features, brief descriptions of known problems or operational issues, documentation corrections, and software installation and upgrade procedures.

Electronic Copies Only

Software and *Switch 4005 Release Notes* are available only from the 3Com Web site.

For the first release of the Switch 4005, software is preinstalled on the product at the factory. **Be sure to download and read the release notes *before* you begin to customize the software.**

For any future software release, be sure to download and read the release notes *before* you install the software on the Switch 4005 because there may be specific procedures that you must follow.

To download electronic copies of the *Switch 4005 Release Notes*, enter **`http://support.3com.com/`** as the URL, click the "Find Documentation" link, then click the "Switches" link, and continue clicking appropriate links for this product and the software release number.

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3Com Network Supervisor

Download your free copy of 3Com Network Supervisor from http:\\www.3com.com\tns. 3Com Network Supervisor provides powerful yet easy-to-use network management tuned to the needs of small to medium enterprises. Automated operations and intelligent defaults assist network managers while advanced features are also available.

An intuitive user interface focuses on the tasks and information all managers need in order to take control of their network. A discovery wizard finds IP devices and links on the network including the 3Com Switch 4005 and NBX telephones providing true converged network management. It will discover up to 1500 devices excluding phones. 3NS version 3 automatically detects network misconfgurations and optimization opportunities.

After discovery the network structure is automatically mapped to provide a graphical display of devices and connections. Working from the map the network manager can quickly monitor stress, set thresholds and alerts, view network events, generate reports and launch device configuration tools. 3NS version 3 introduces key "Smart Event Engine" functionality enabling users to automatically spot recurring and correlated events.

To provide fast notification of problems 3Com Network Supervisor alerts announce network problems via audio/visual alarms such as pagers or SMS messages as well as email.

Network event tracking and reporting of network capacity, inventory and topology as well as the ability to generate custom reports facilitate proactive network management.

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Included Services

The purchase of this Switch 4005 includes the following services:

- Telephone Support
- 3Com Web and Bulletin Board Services
- Software Bug Fix Releases

These services are not part of the product warranty. 3Com reserves the right to modify or cancel these included services at any time without advance notice. These services are not available where prohibited or restricted by law.

Telephone Support

Telephone technical support, with coverage for basic troubleshooting only, is provided for 90 days from the date of purchase, on a commercially reasonable efforts basis. Telephone support is available from 3Com only if you purchased this product directly from 3Com, or if the your reseller is unable to provide telephone support.

For 3Com technical support contact numbers around the world, see the Technical Support appendix in the *Switch 4005 Installation and Maintenance Guide* or *Switch 4005 Software Configuration Guide*, or visit the 3Com Web site.

3Com Web Site and Bulletin Board Services

Information from the 3Com Web site or bulletin board services around the world is available at no charge. These resources provide electronic manuals, technical tips, and other information about 3Com products.

From the 3Com Web site, you can search the 3Com Knowledgebase for information on particular problems or questions.

If you have a technical support case open with 3Com, you can access the latest information about your case from the 3Com Web site.

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4 PRODUCT COMPLIANCE

Country or regional standards exist for certain physical and safety issues. The Switch 4005 complies with the standards noted in this chapter.

Product specifications and additional standards compliance information are noted in the *Switch 4005 Installation and Maintenance Guide*.

Emissions Compliance Statements for Class A Products

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

Canadian Emissions Requirements

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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VCCI Class A Compliance

この装置は，情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＡ情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

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EMC Directive Statement

EMC Directive Compliance

This equipment was tested and found to conform to the Council Directive 89/336/EEC for electromagnetic compatibility. Conformity with this Directive is based upon compliance with the following harmonized standards:

EN 55022	Limits and Methods of Measurement of Radio Interference
EN 50082-1	Electromagnetic Compatibility Generic Immunity Standard: Residential, Commercial, and Light Industry

Warning: This is a Class A product. In a domestic environment, this product may cause radio interference, in which case you may be required to take adequate measures.

Low Voltage Directive Statement

Low Voltage Directive Compliance

This equipment was tested and found to conform to the Council Directive 72/23/EEC for safety of electrical equipment. Conformity with this Directive is based upon compliance with the following harmonized standard:

EN 60950	Safety of Information Technology Equipment

General Approval Statement for UK

UK General Approval Statement

This equipment is manufactured to the international Safety Standard EN60950 and is approved in the UK under the General Approval Number NS/G/12345/J/100003 for indirect connection to the public telecommunication network.

Australian EMC Frameworks Statement

Australian EMC Frameworks Compliance

This product conforms to the EMC Frameworks and meets the Class A limits of AS3548.

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